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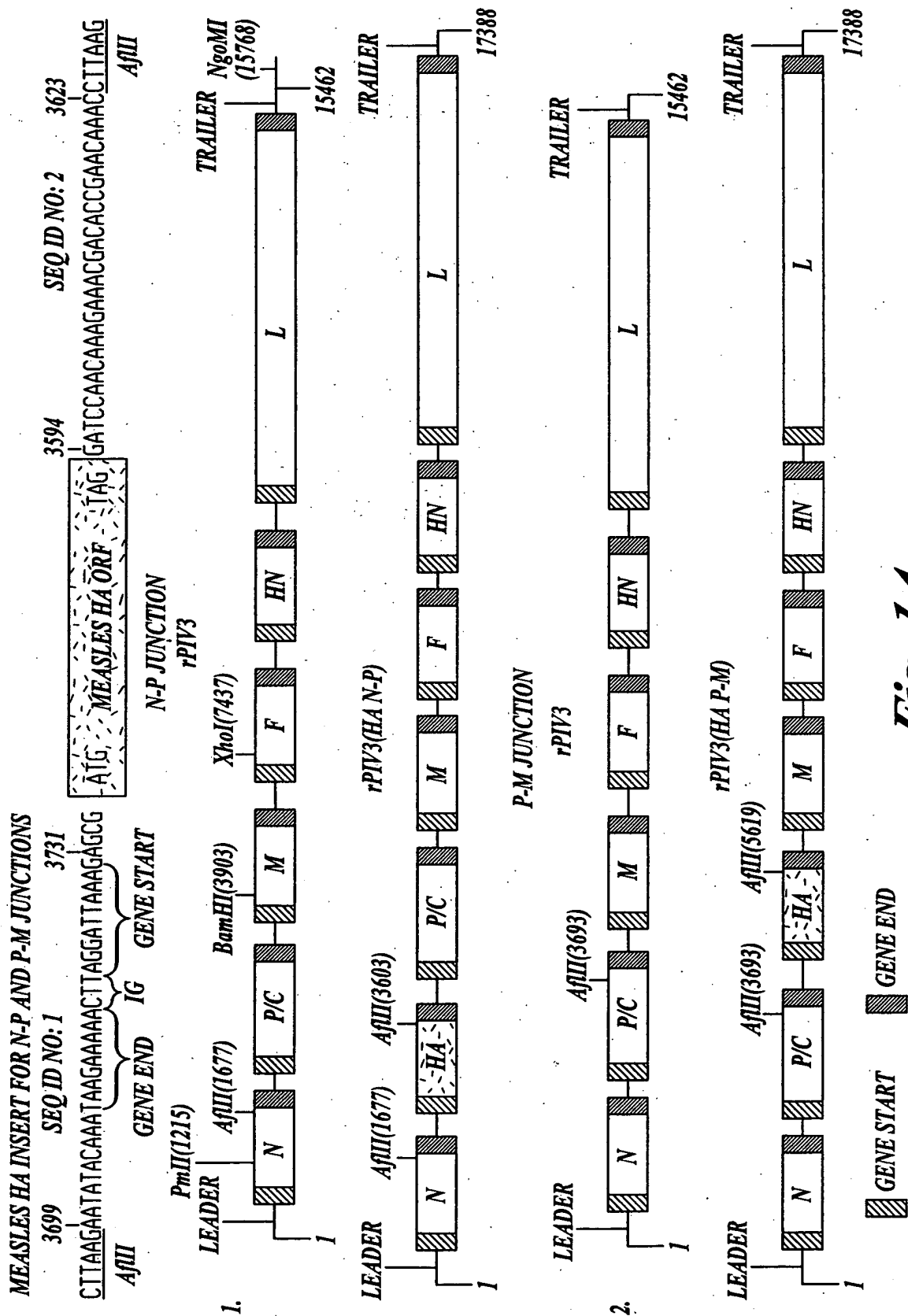
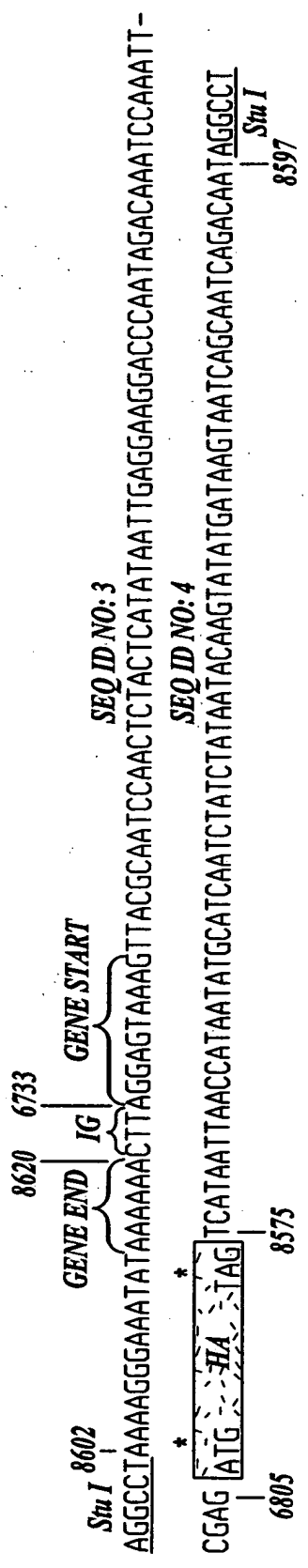


Fig. 1A

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MEASLES HA INSERT FOR THE HN-L JUNCTION



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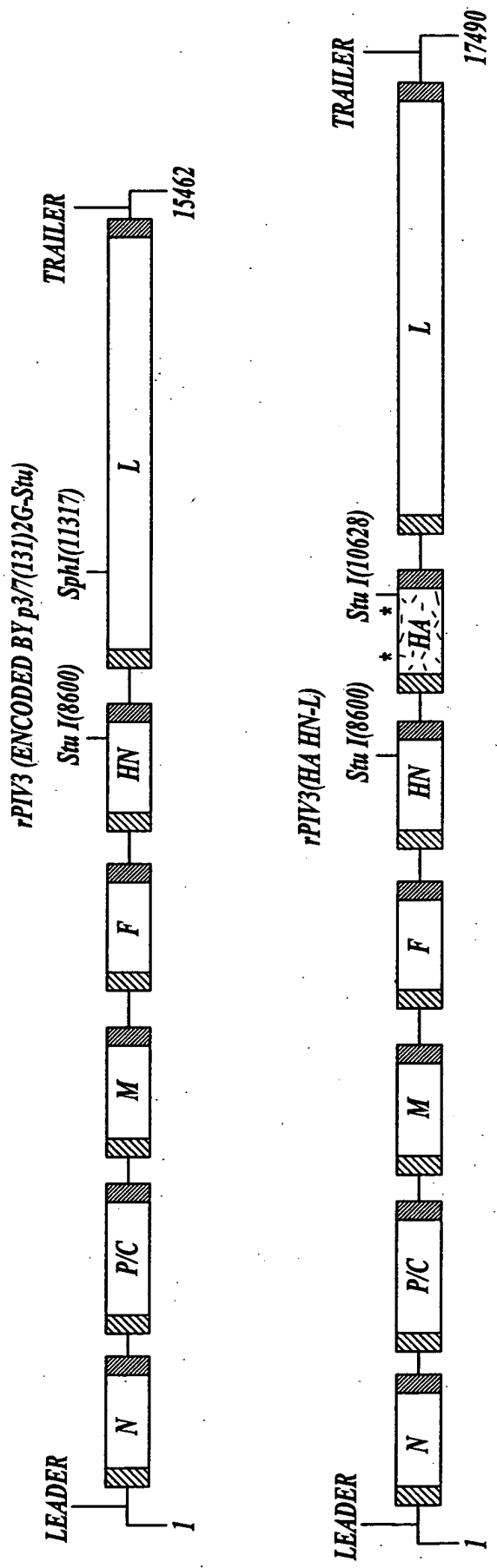
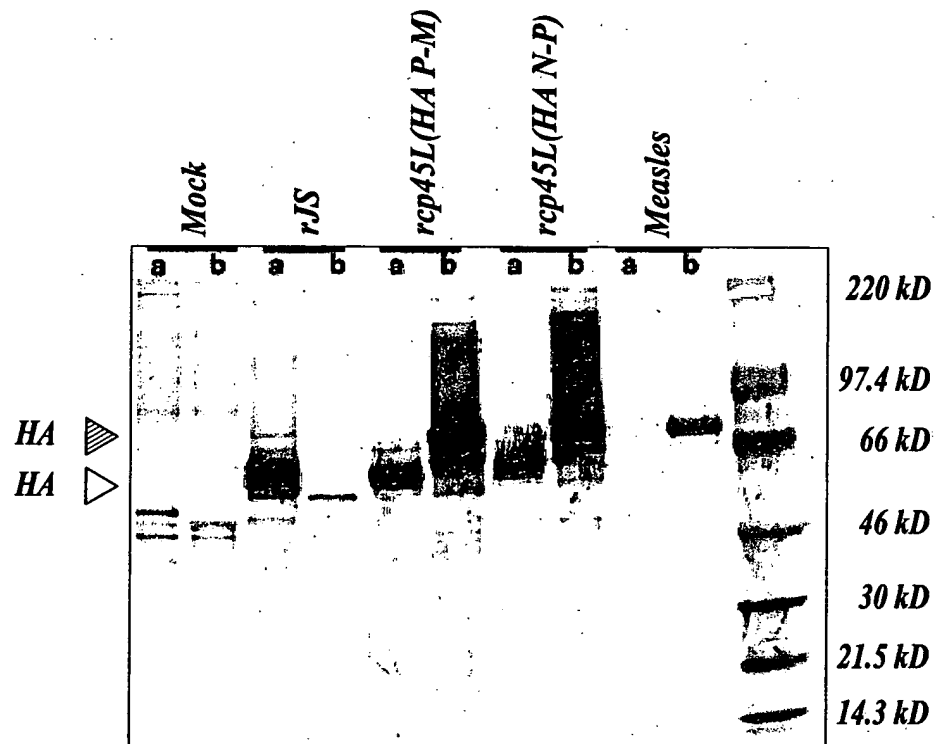


Fig. 1B

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*Fig. 2*

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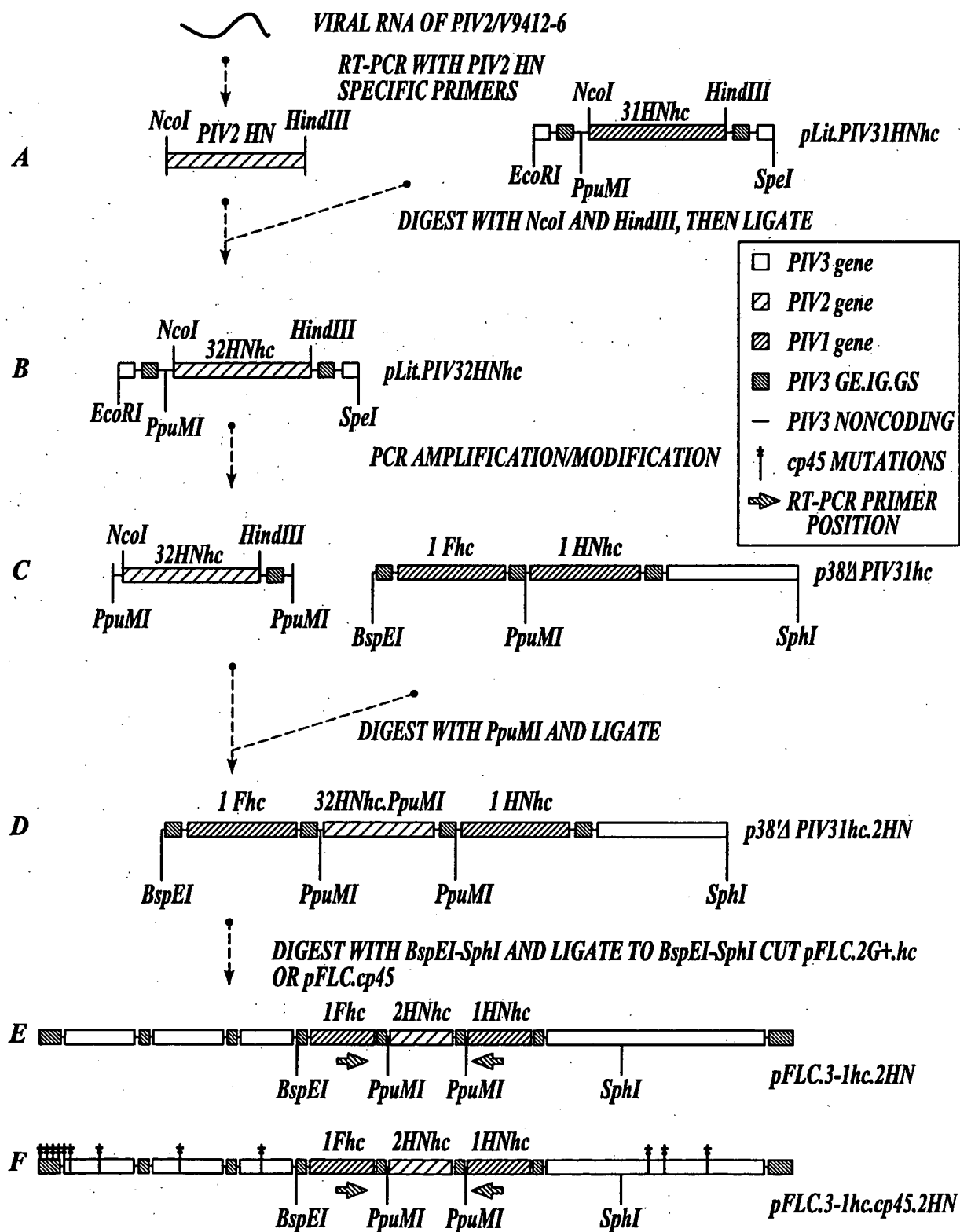


Fig. 3

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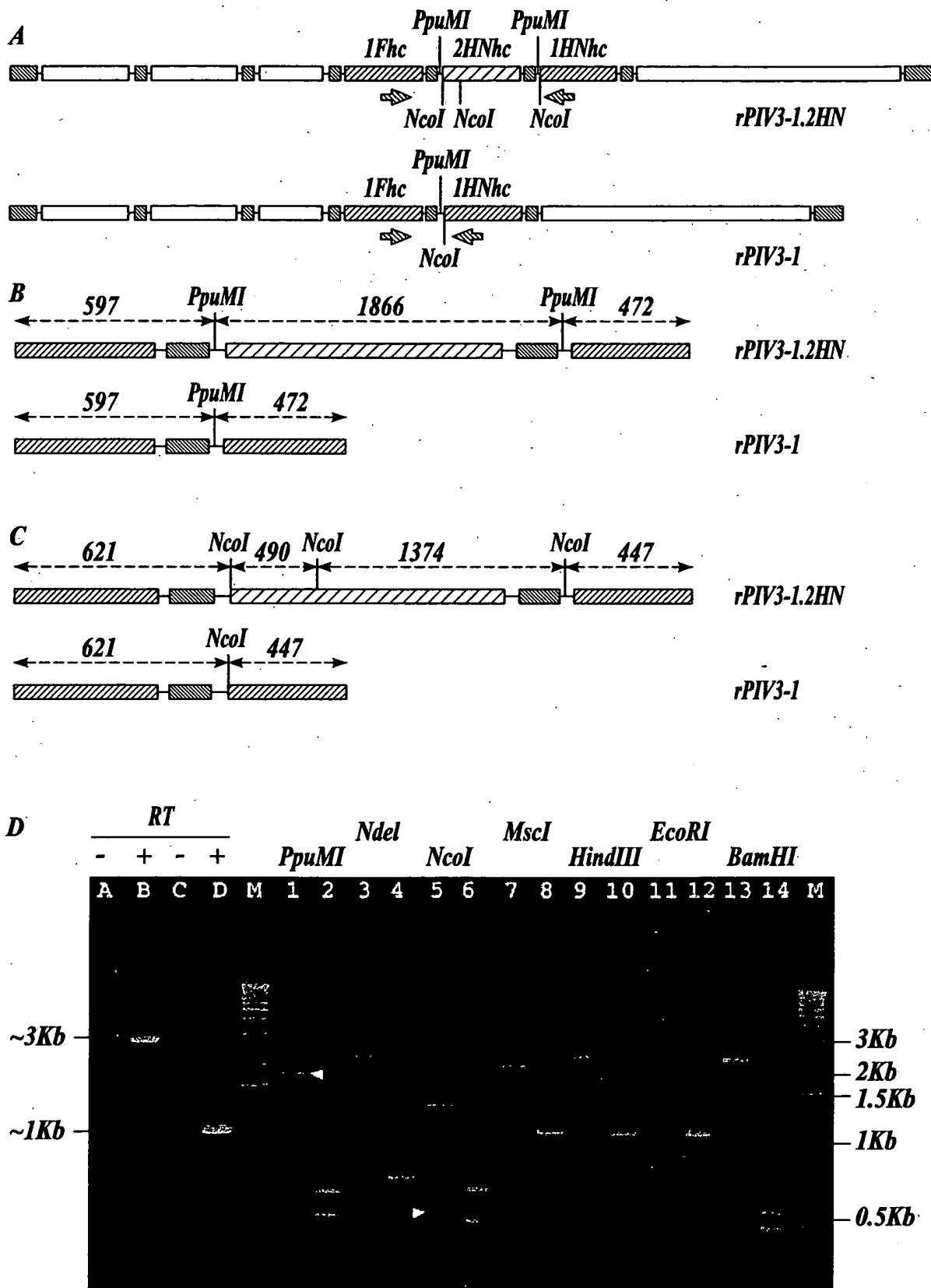
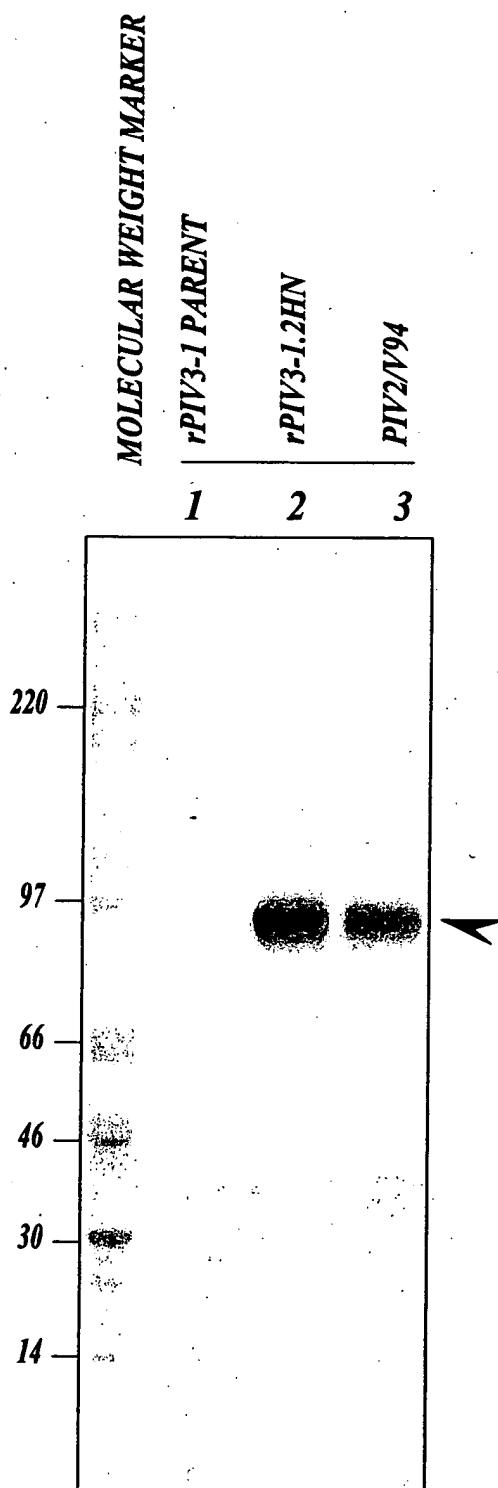


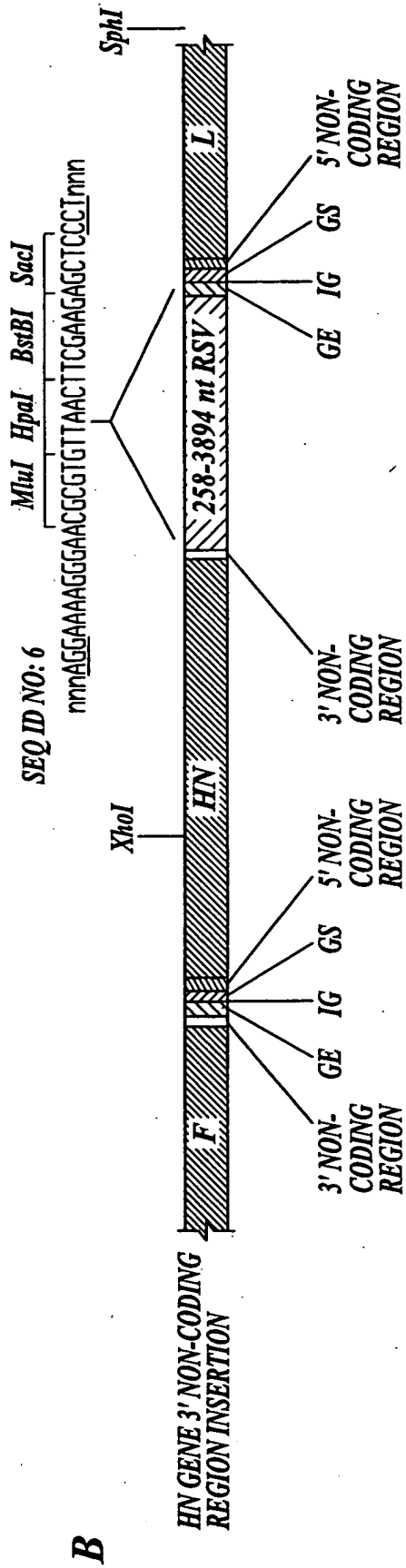
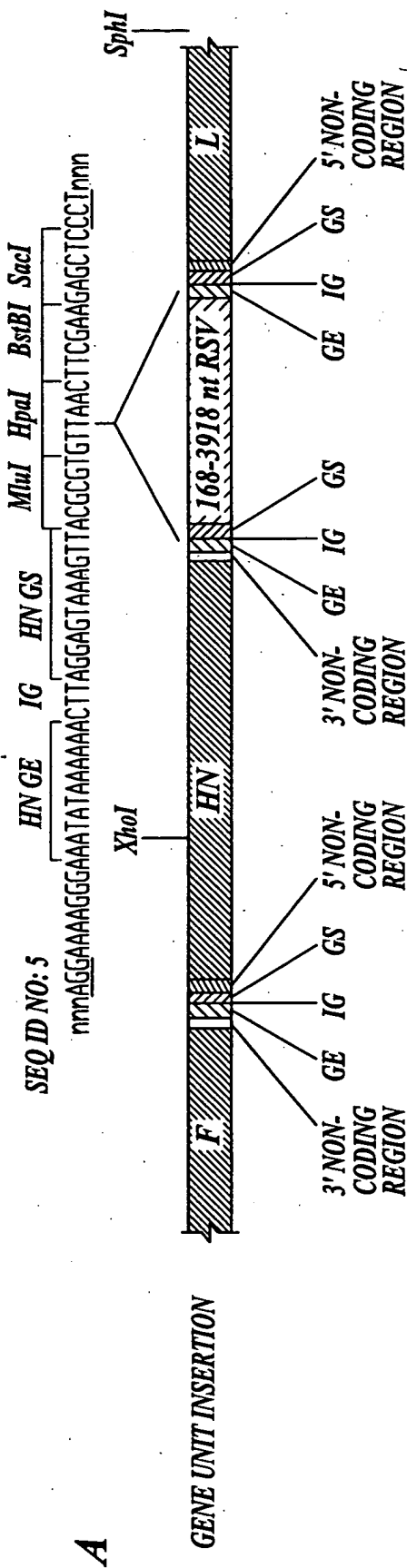
Fig. 4

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*Fig. 5*

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**Fig. 6**

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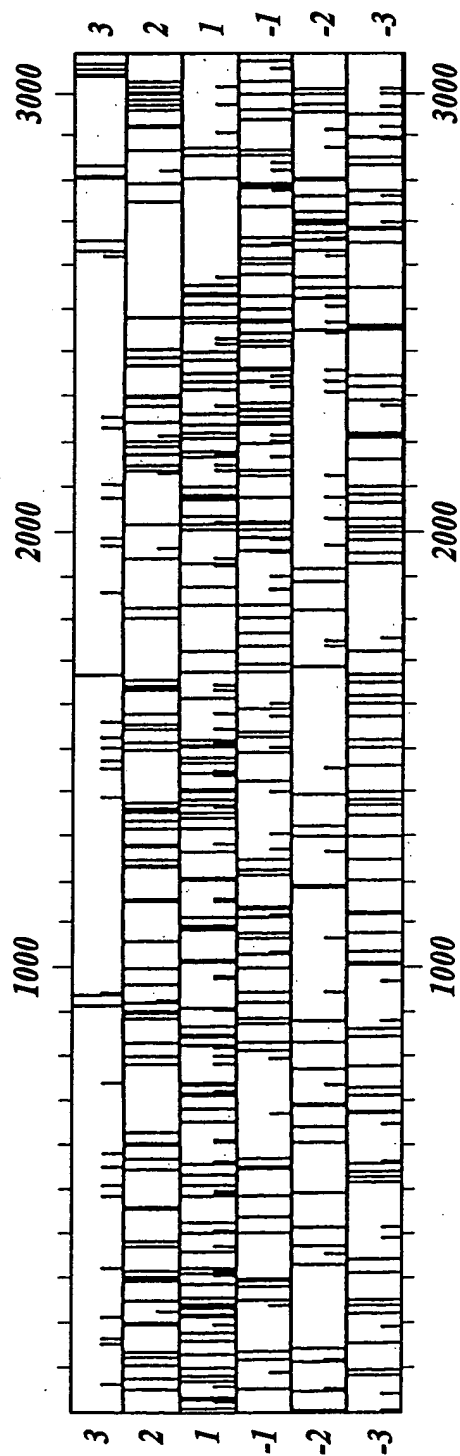
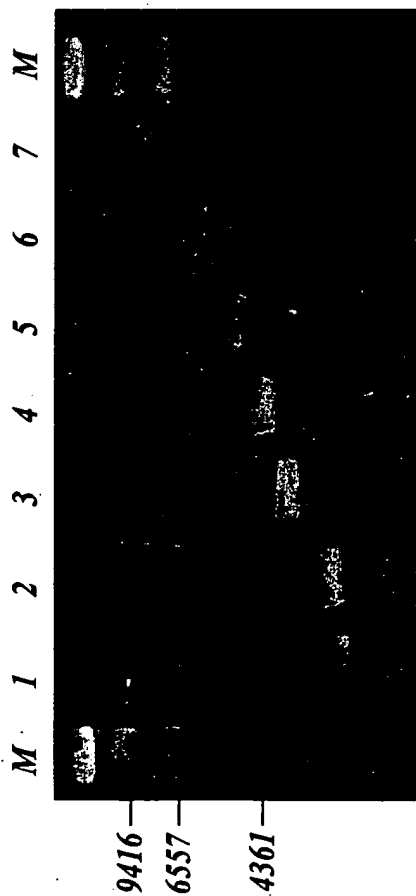


Fig. 7

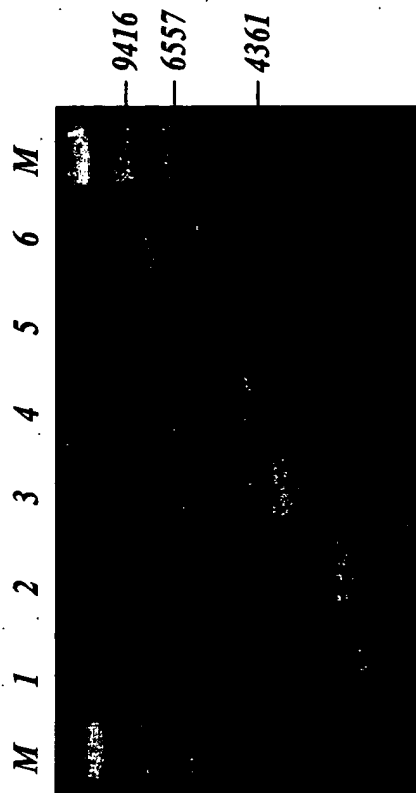


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A



B

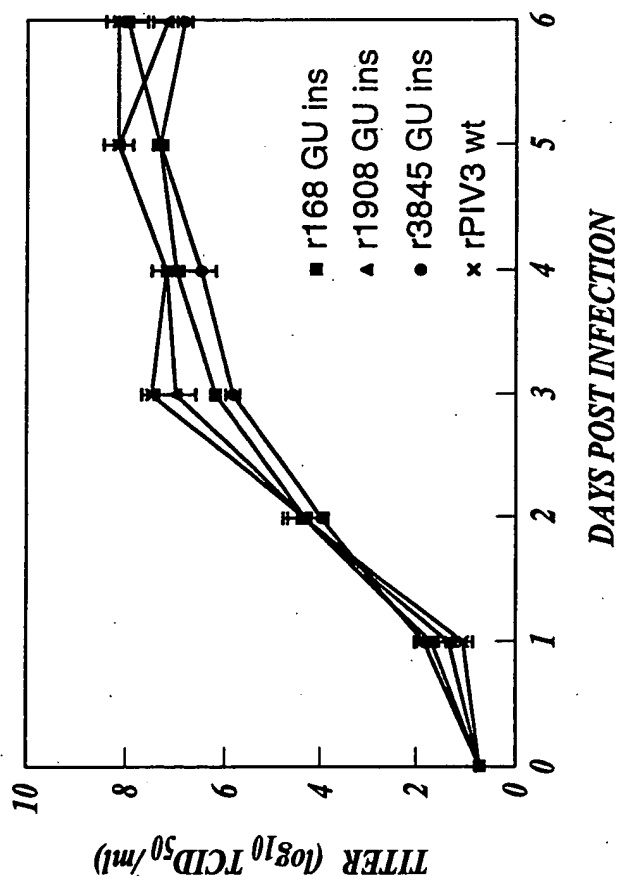


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Fig. 8

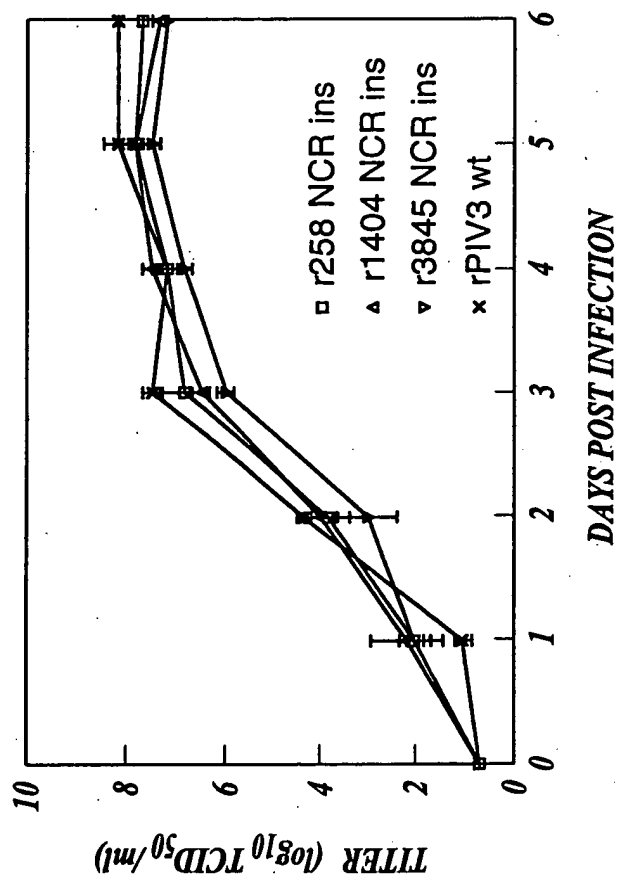
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*Fig. 9A*

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*Fig. 9B*

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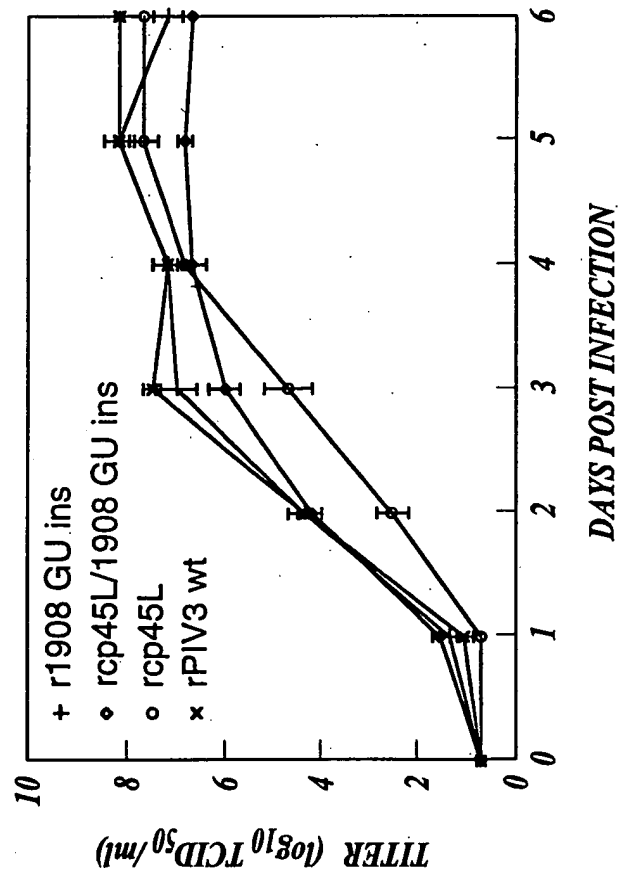


Fig. 9C

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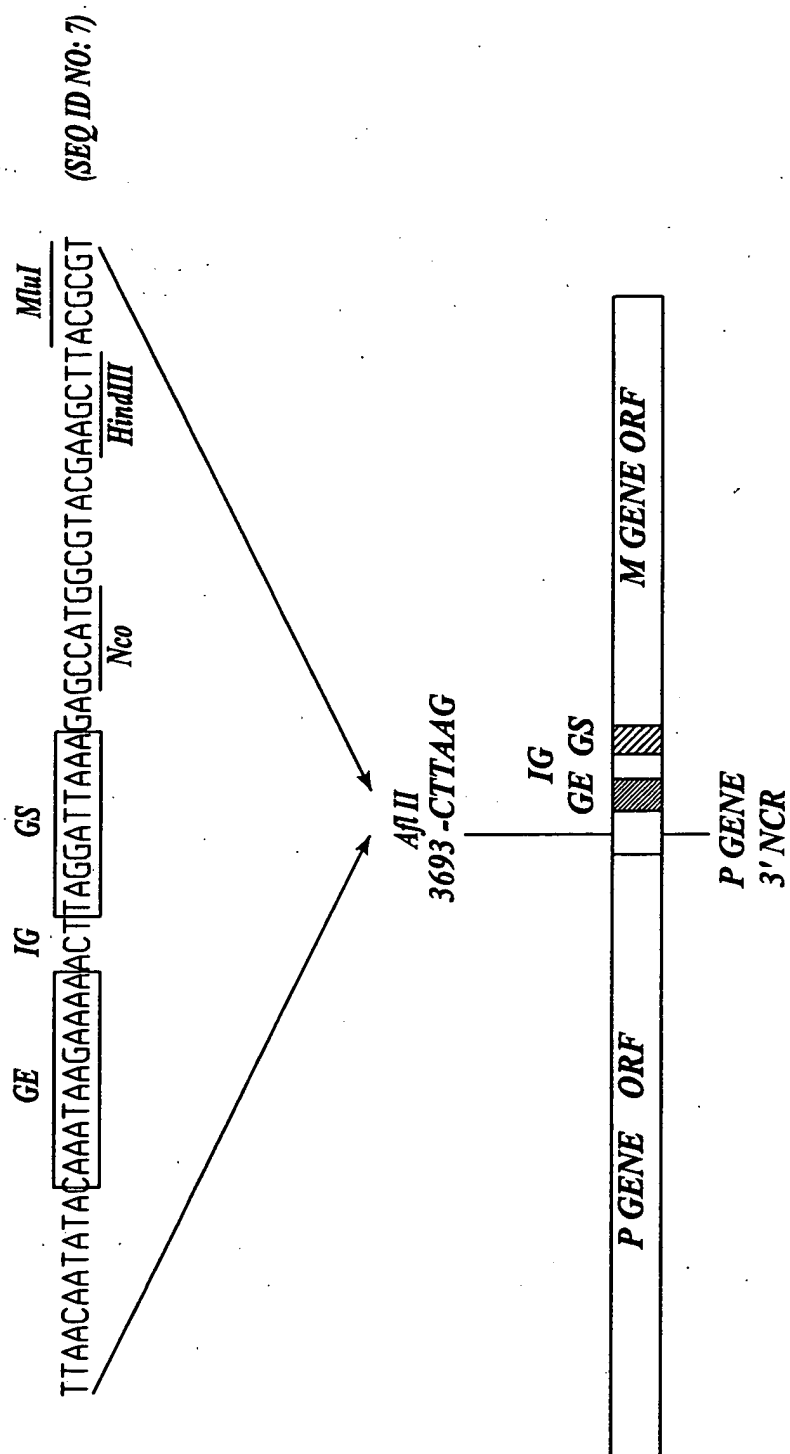


Fig. 10

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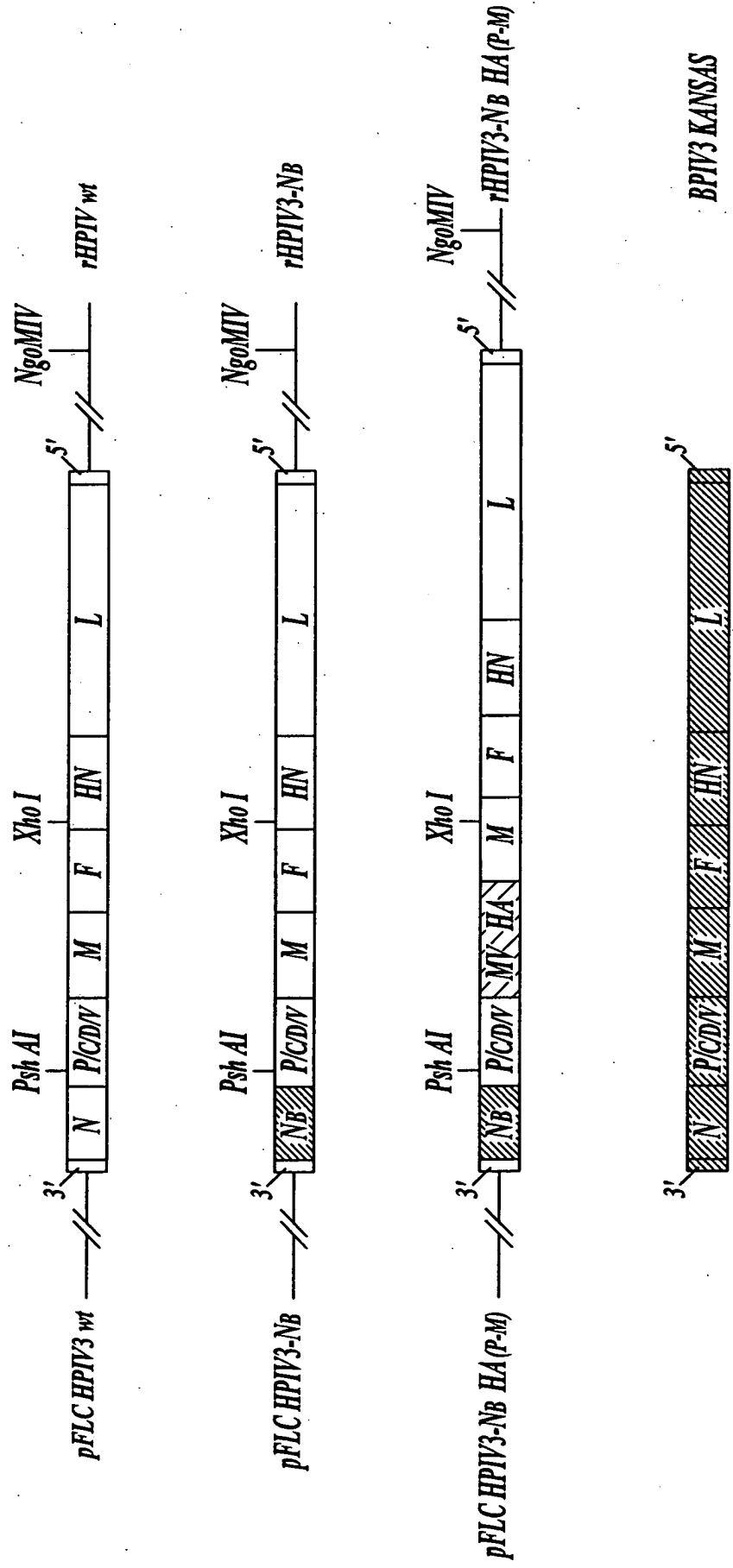
REDUCTION IN TITER AT 39°C (LOG <sub>10</sub> TCID <sub>50</sub> /ML) <sup>b</sup>		MEAN PEAK TITER (LOG <sub>10</sub> TCID <sub>50</sub> /ML) <sup>a</sup>	
rHPiV3 wt	3' N P/CDN M F HN L 5'	9.4	0.3
rHPiV3 1HN N-P	3' N HNPIV1 P/CDN M F HN L 5'	7.4	0.7
rHPiV3 1HN P-M	3' N P/CDN HNPIV1 M F HN L 5'	7.9	2.3
rHPiV3 2HN N-P	3' N HNPIV2 P/CDN M F HN L 5'	7.9	0.3
rHPiV3 2HN P-M	3' N P/CDN HNPIV2 M F HN L 5'	9.2	0.5
rHPiV3 1HN N-P2HN P-M	3' N HNPIV1 P/CDN HNPIV2 M F HN L 5'	8.5	0.8
rHPiV3 1HN N-P2HN P-M HA HN-L	3' N HNPIV1 P/CDN HNPIV2 M F HN HAM L 5'	7.7	3.0
rHPiV3 1HN N-P2HN P-M3918GU HN-L	3' N HNPIV1 P/CDN HNPIV2 M F HN GU3918m1 L 5'	8.7	2.0

Fig. 11

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cDNA

rHPiV3



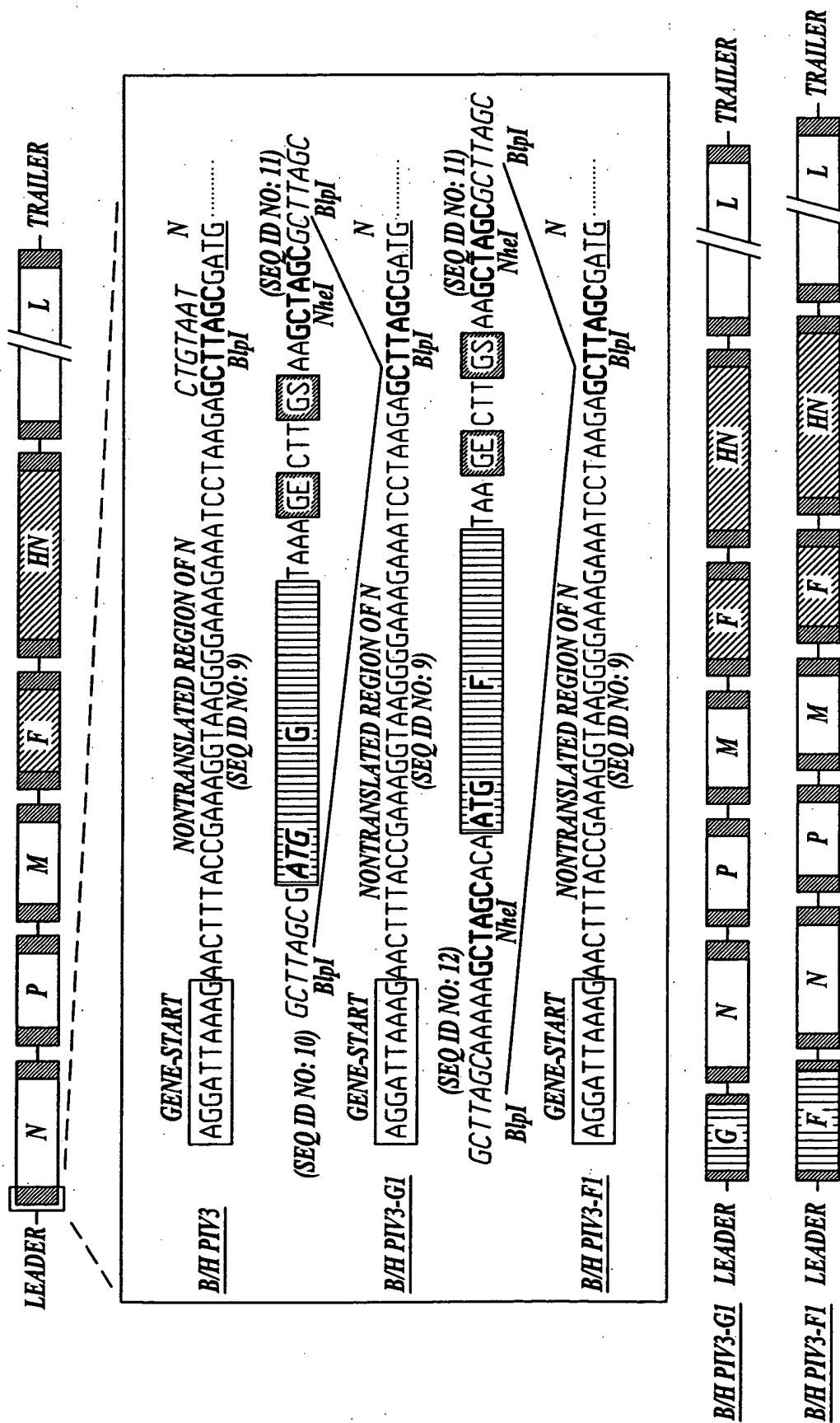
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Fig. 12

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# INSERTION OF RSV G OR F AS AN ADDITIONAL GENE UNIT IN A PROMOTER-PROXIMAL POSITION



*Fig. 13*



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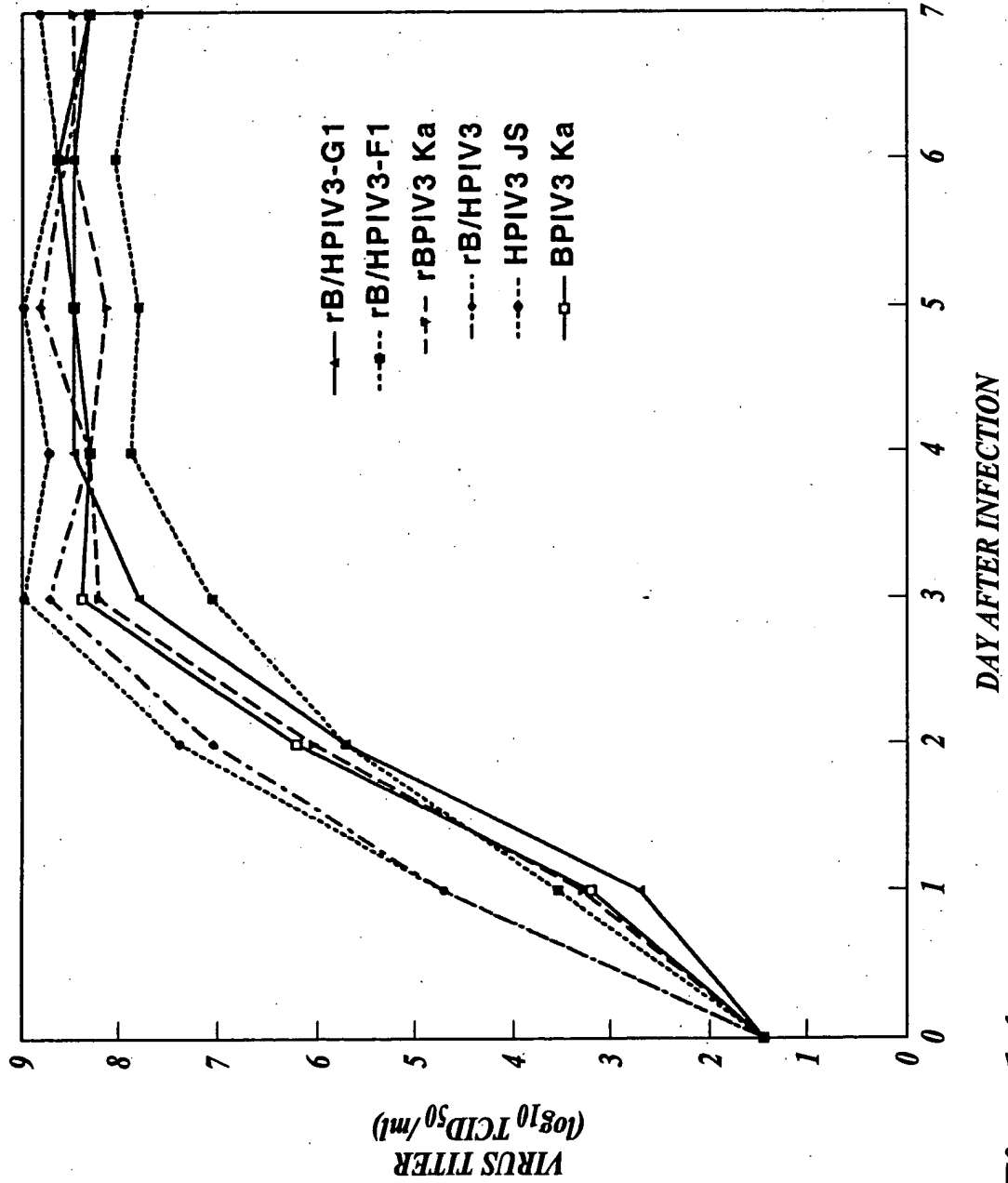
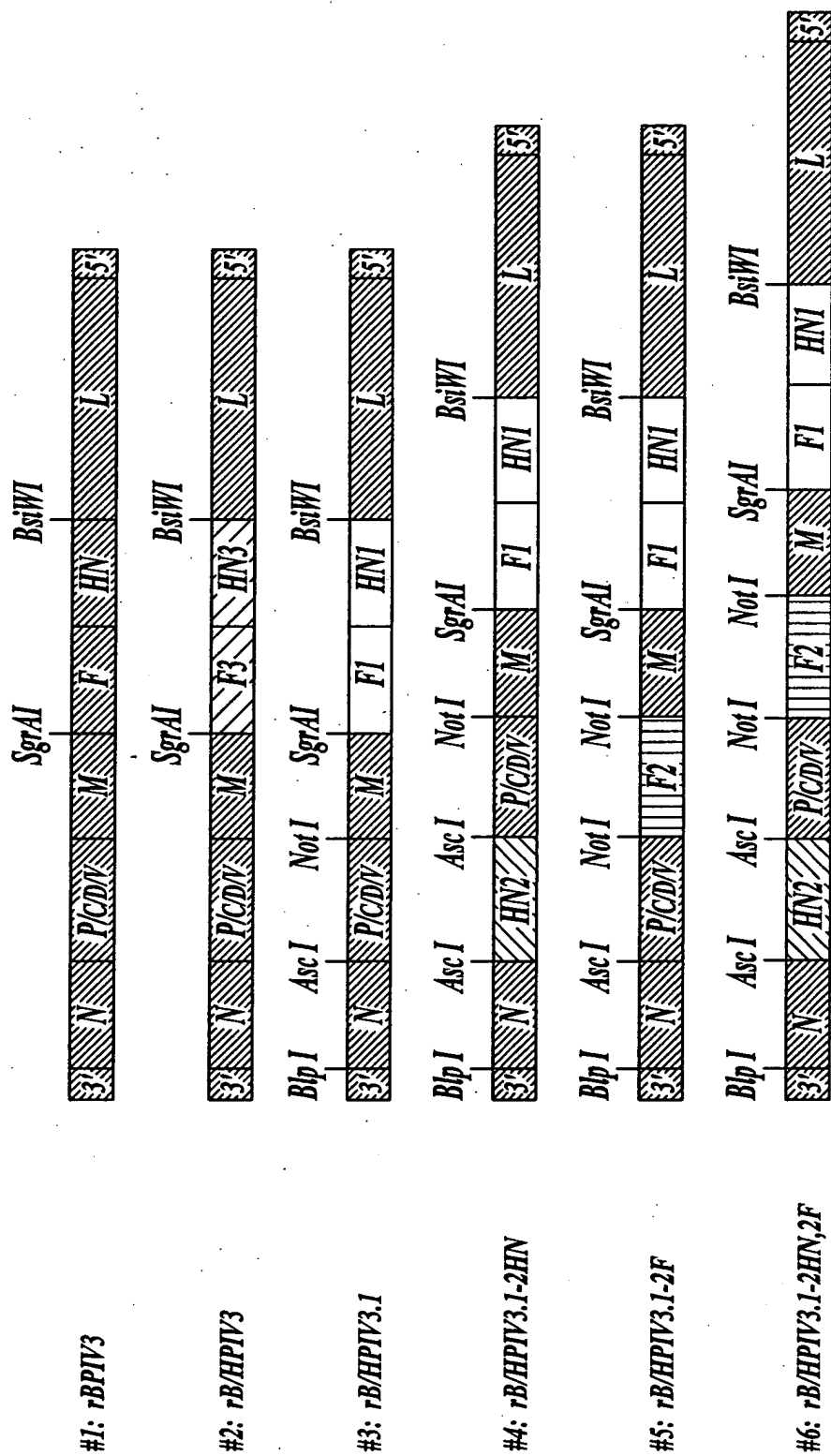


Fig. 14

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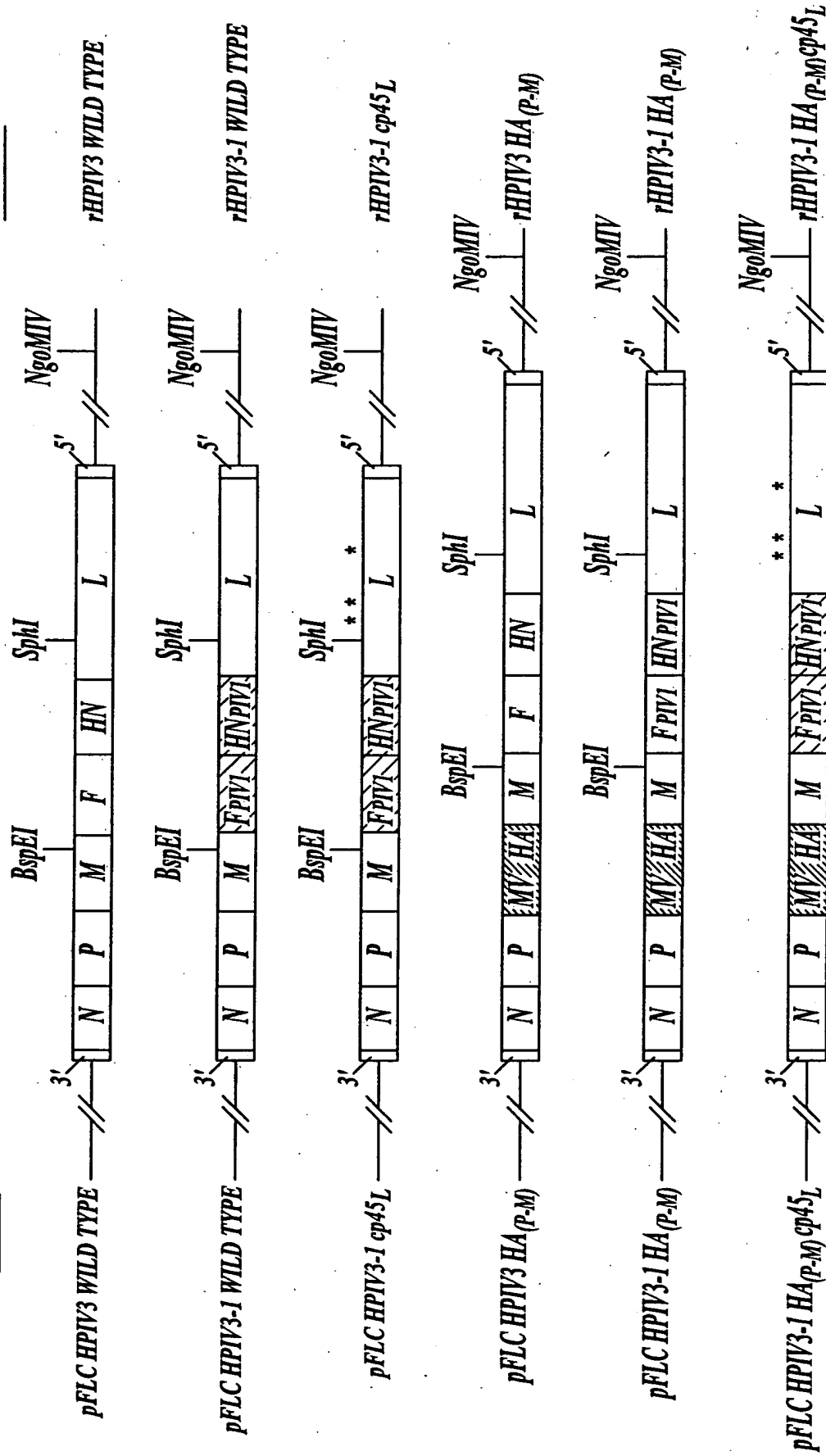
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RECOMBINANT BOVINE/HUMAN PIV3.1 EXPRESSING HPIV2 F AND HN FROM SUPERNUMERARY GENES*Fig. 15*

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cDNA

VIRUS



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Fig. 16

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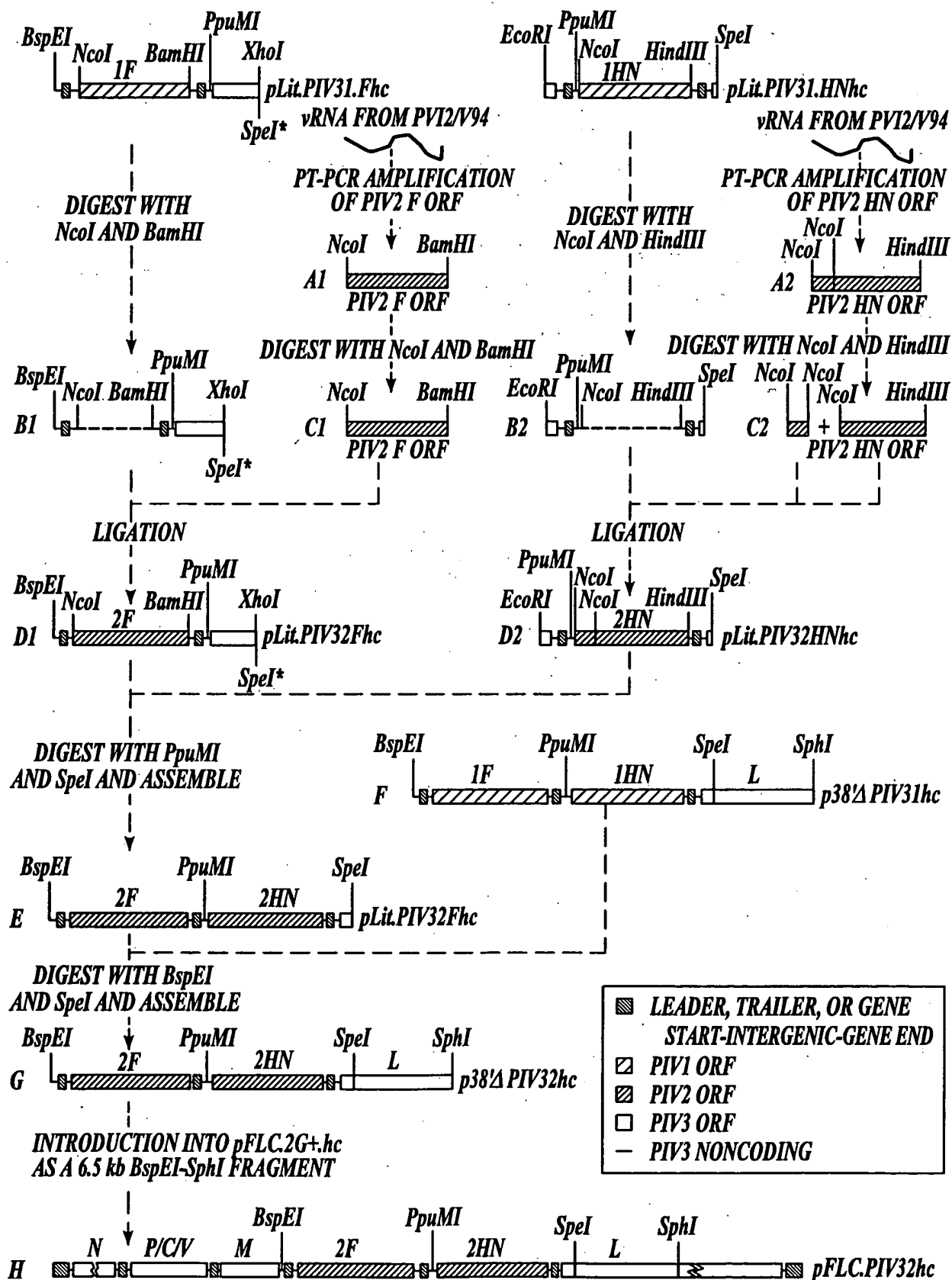


Fig. 17

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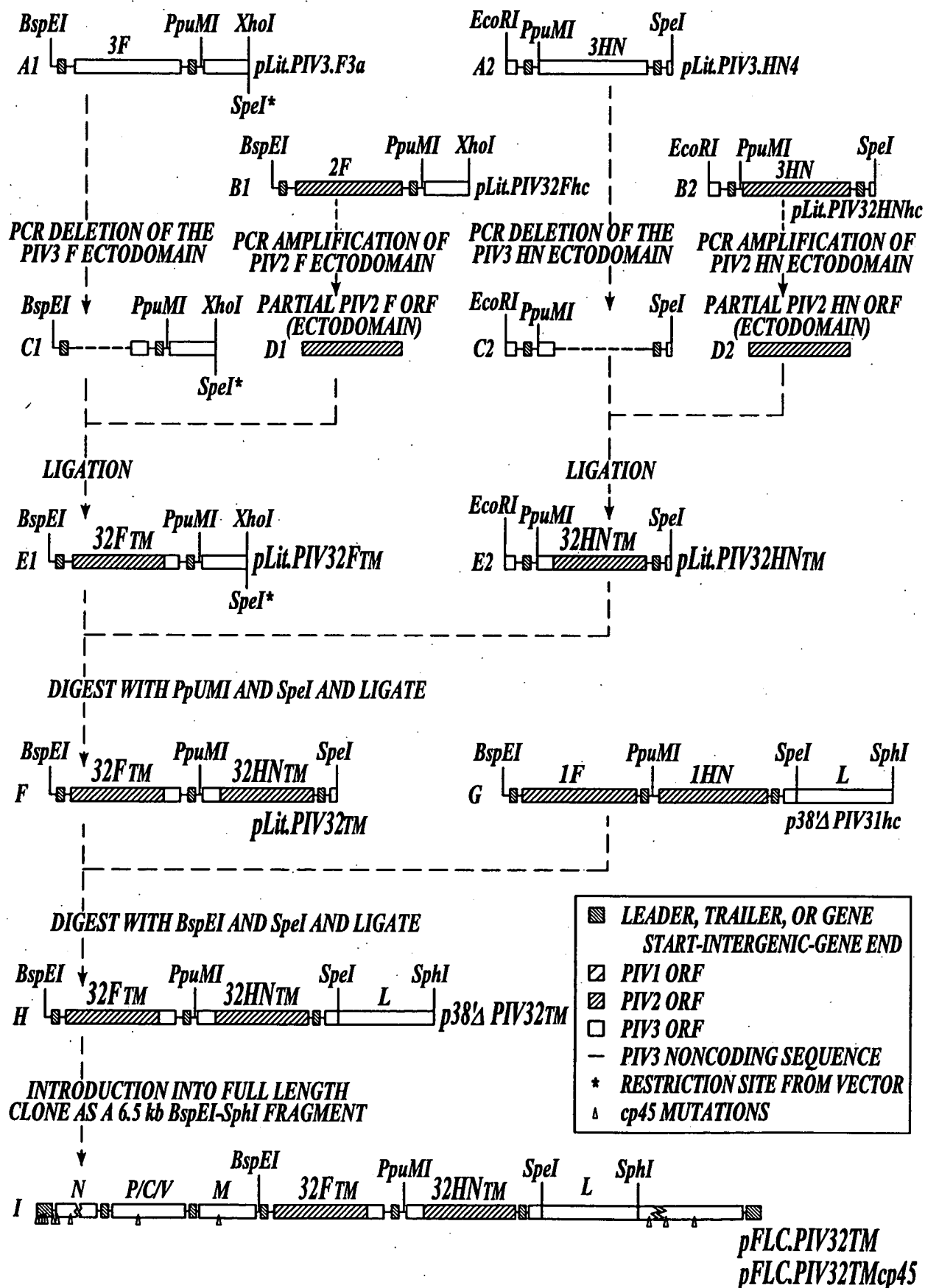


Fig. 18

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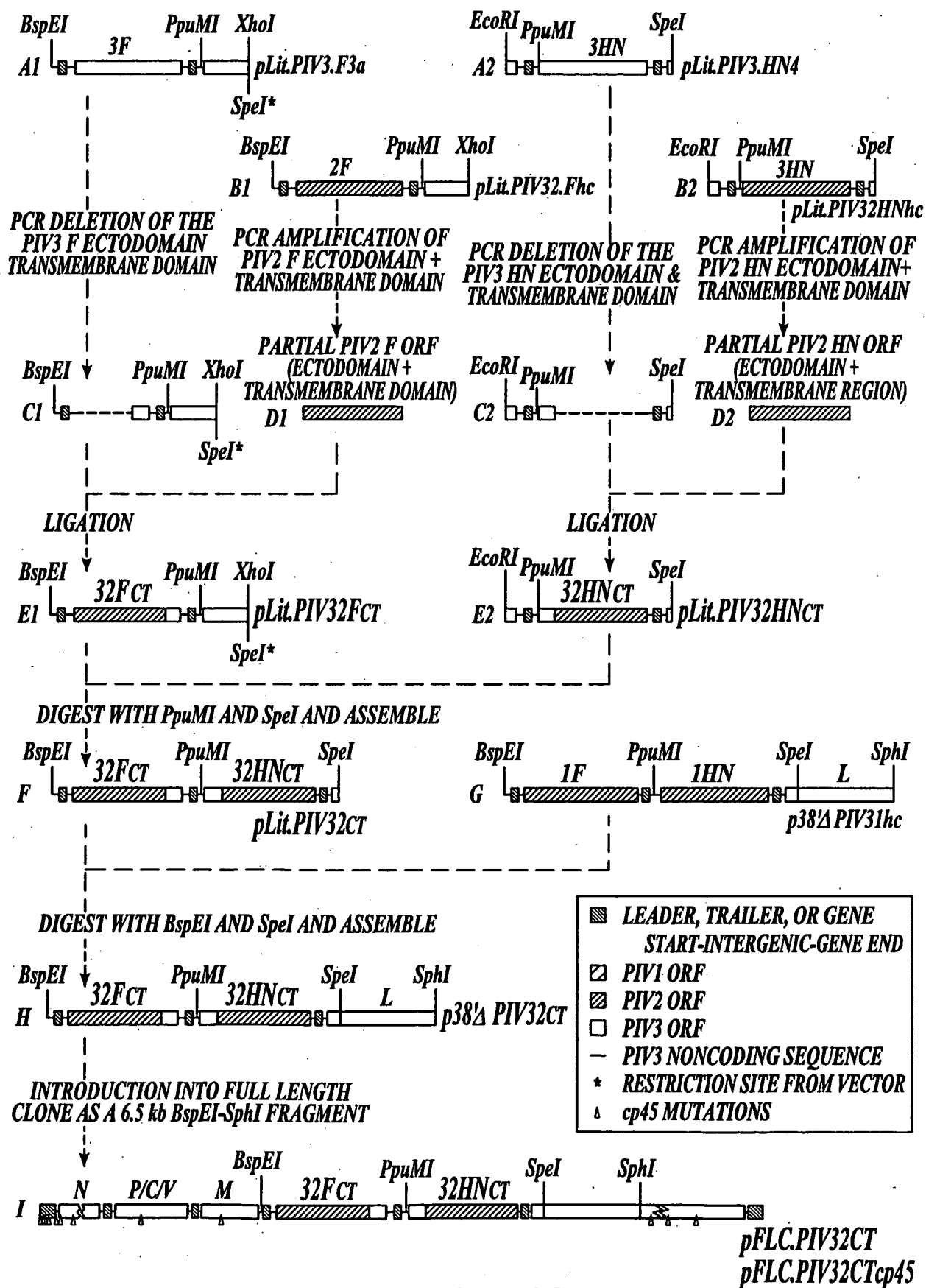
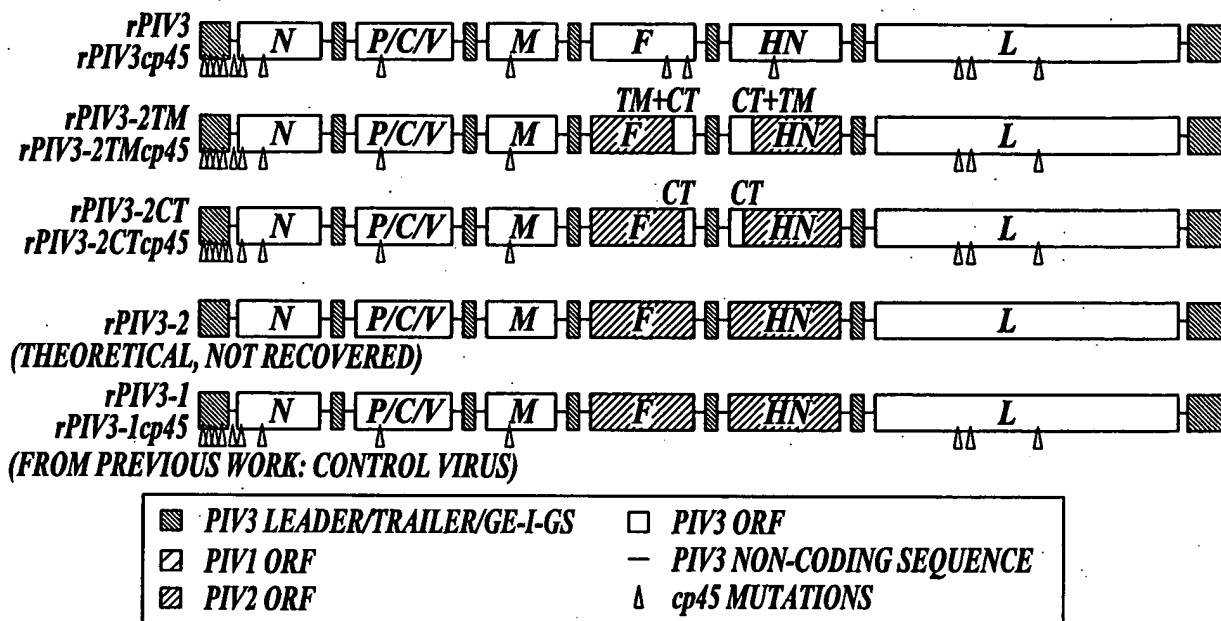


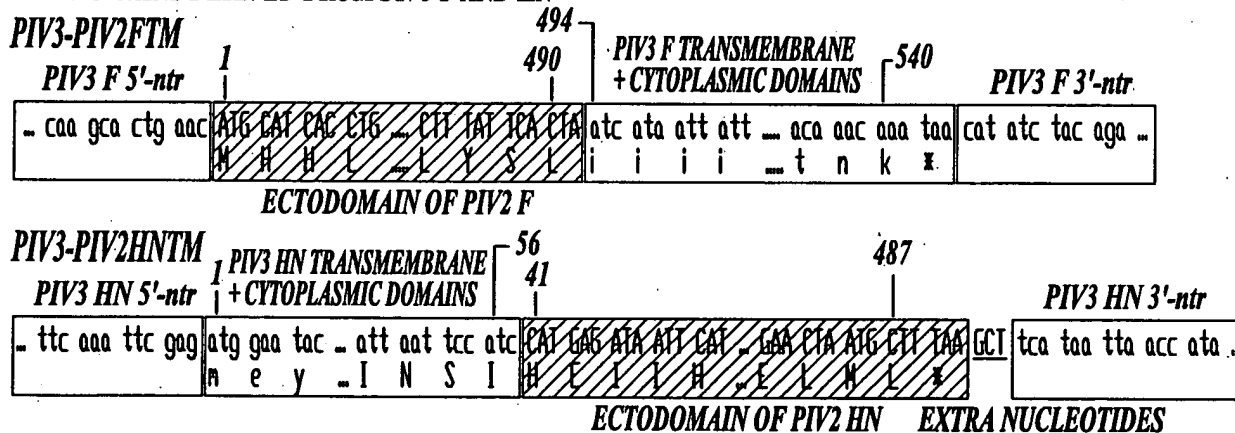
Fig. 19

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## A. GENETIC STRUCTURES OF PIV3-2 CHIMERIC VIRUSES COMPARED WITH rPIV3 PARENT AND rPIV3-1



## B. CHIMERIC PIV3-2 F AND HN CONSTRUCTS WITH TRANSMEMBRANE AND CYTOPLASMIC DOMAINS DERIVED FROM PIV3 F AND HN



## C. CHIMERIC PIV3-2 F AND HN CONSTRUCTS WITH CYTOPLASMIC DOMAIN DERIVED FROM PIV3 F AND HN

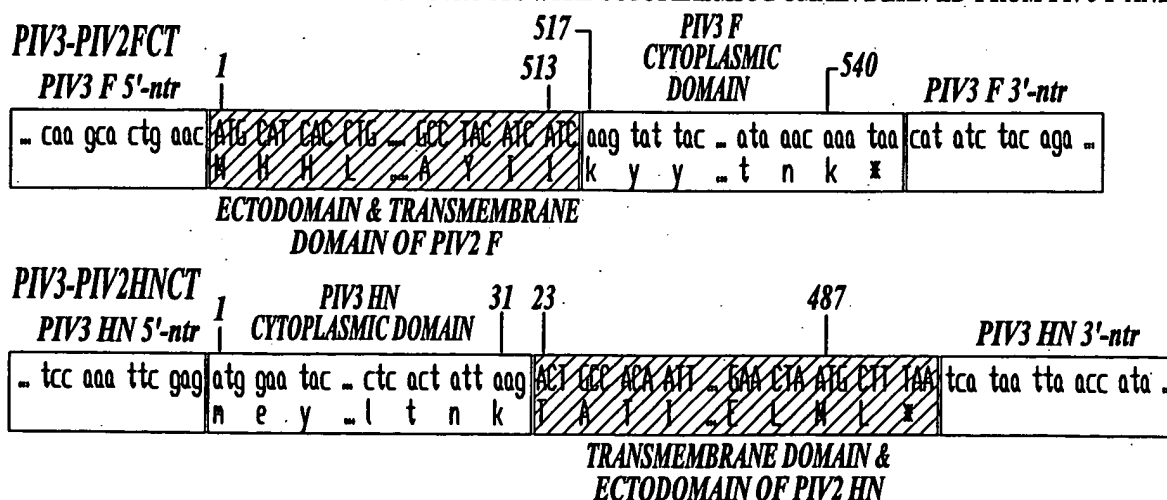
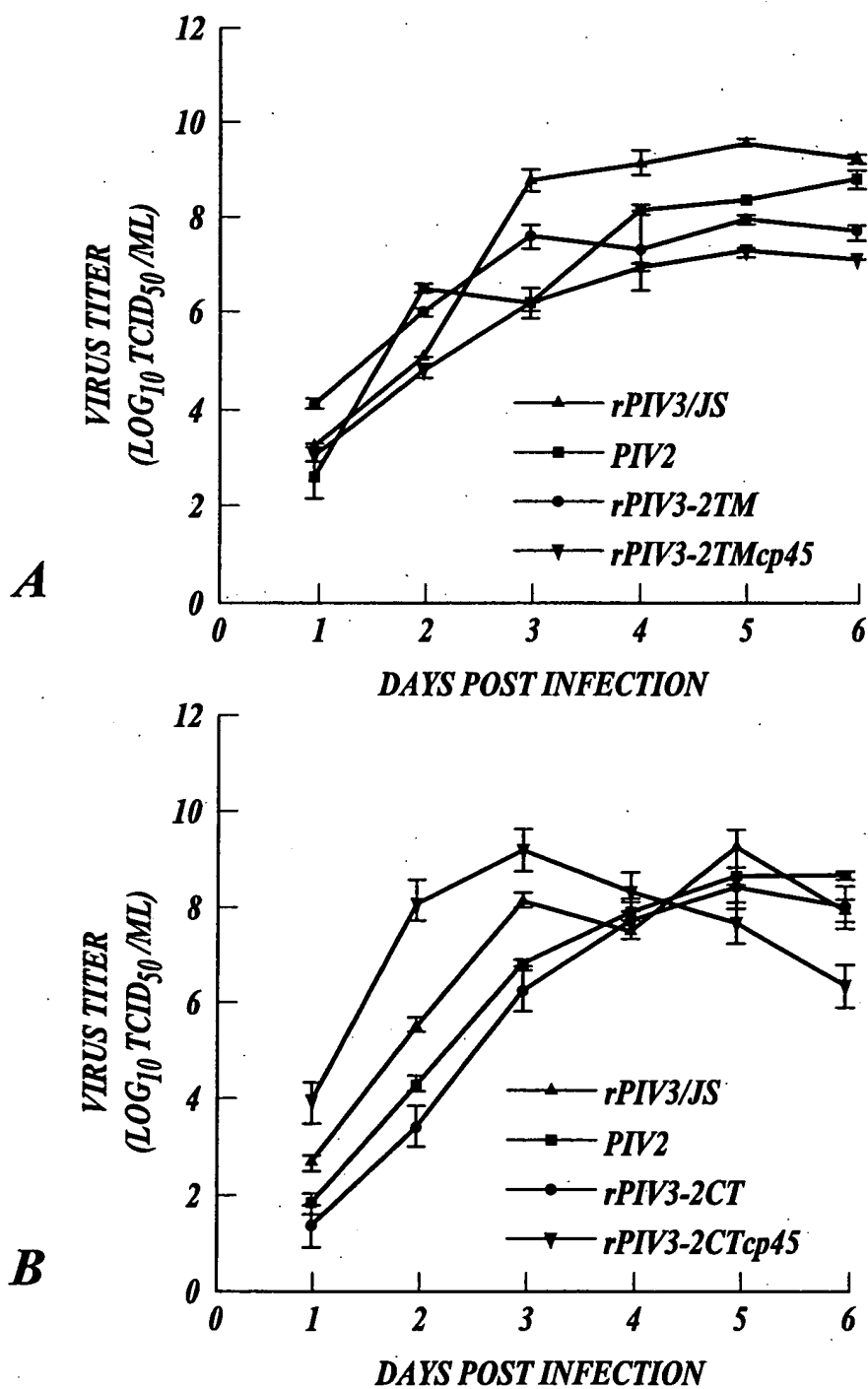


Fig. 20

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**Fig. 21**